

CONTROL CLEANING



MOBILE QUALITY CONTROL
OF BATHS AND CLEANED PARTS


Advancing your Surface Science



SURE THE CLEANER CONCENTRATION IN YOUR BATH IS RIGHT?

- Check the concentration within seconds and react quickly
- Follow the tendency over time and dose proactively
- Find optimal testing parameters without extra lab devices

When there is only rough knowledge about the cleaner concentration in a bath, it may be too low, which is a quality issue, or too high, causing unnecessary costs.

How to get to just the right amount of cleaner

To have complete control over the cleaning step, our Bubble Pressure Tensiometer – BPT Mobile gives you a quick and comprehensive answer about the current state of your bath and the right time to add cleaning agent.

Checking your bath with our BPT Mobile

Immerse – click – read out: Capture the surfactant content of your cleaning bath within seconds using surface tension with our BPT Mobile. The quality inspector using it knows immediately if the bath is okay thanks to an ad-hoc evaluation. Moreover, for proactive adjustment of the bath, the BPT Mobile shows how the cleaner content decreases over time.

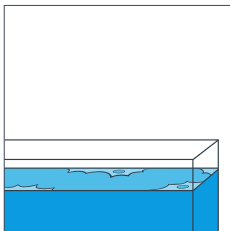
Quality at a touch

With the intuitive touch display, working with the BPT Mobile is almost like doing quality tests with a smartphone. Thanks to the large display, functions are easy to hit – even with lab gloves. Programmed measurement templates and the fact that the instrument is insensitive to changing immersion depths provide for user-independent quality control.

Covering the whole quality process

Three measuring modes prepare the BPT Mobile for every aspect of the control procedure. Single point measurements give instant results and show their trend over time to help you intervene quickly and even proactively. The continuous mode shows the live result during dosage so you know when to stop. The dynamic measurement helps optimize the setup for the quality routine and spares a separate lab instrument.

Step 1



Is your bath OK?

Step 2



Immerse and click.

Step 3



Read out.





SURE YOUR PARTS COME OUT CLEAN?

- Check the quality of clean parts on site
- Confirm cleanness faster and more reliably than with test inks
- Work with user-independent, agile, and enduring technology

There is no guarantee that your components are really clean after they leave the bath. Hydrophobic contaminants may still be on the surface, reducing quality when bonding or coating the workpiece.

How to find out whether your surface is clean

To be really sure that the cleaning process is sufficient, our Mobile Surface Analyzer – MSA quickly detects hydrophobic layers on the material by measuring wettability.

Quality check of cleaned parts with one click

Position – click – read out: Check the quality of your cleaned parts in no time at all using our MSA. Turning the once laborious contact angle technique into an ultra-fast QA method, the MSA measures the surface free energy (SFE), which is a perfect indicator for hydrophobic contaminations and far more reliable than test inks.

Results without user influence

Measurements using templates and automated dosing of test liquids ensure operator-independent results, which can be automatically evaluated using predefined limits.

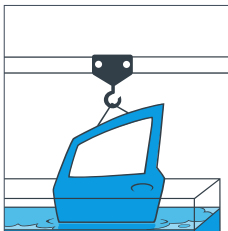
Tests at almost any position on samples without size limit

Our MSA analyzes samples of any size, such as automobile bodies. It provides accurate values even for vertical, overhead, and slightly convex samples. Moreover, the instrument can also detect residues of cleaning agents.

Vast number of measurements without interruptions

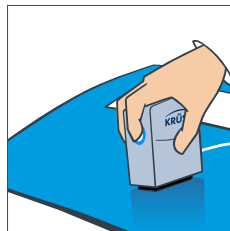
The MSA is capable of doing 1,000 material tests per cartridge charge. Refilling cartridges is quick and easy and does not even require special liquids to be acquired from us.

Step 1



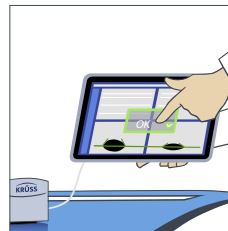
Is your part really clean?

Step 2



Position and click.

Step 3



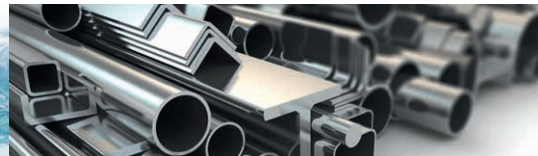
Read out.



THE SCIENCE OF MAKING THINGS EASY

Science is complex, but when used for quality control, scientific tools must be as simple as possible. Our mission at KRÜSS is to build instruments that apply proven scientific methods for interfacial analysis with maximum ease of use. With miniaturized and

automated technology, we create mobile devices for precise on-site quality control and reduce the whole measuring procedure to a single click. Our solutions incorporate know-how of our application experts, who are in close contact with quality managers in manifold industries.



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